

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035027.D
 Acq On : 14 May 2020 19:39
 Operator : SY/AP
 Sample : L2566-06DL2 120X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 15 01:11:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1204263	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2889084	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2754947	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2348554	10.53	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

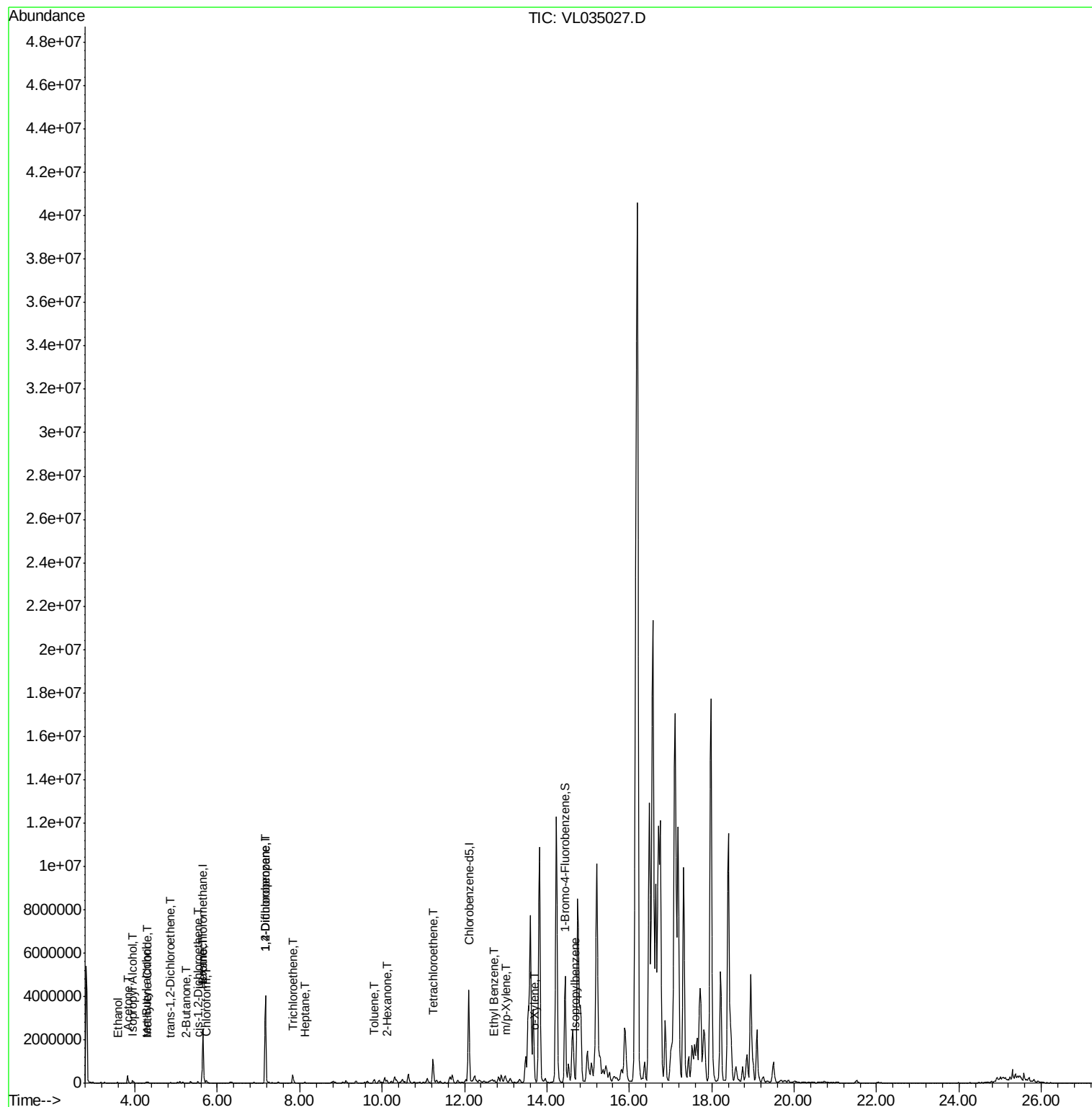
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) Heptane	8.12	43	14040	0.094	ppbv #	82
13) Ethanol	3.58	45	28339	1.439	ppbv	99
15) Acetone	3.82	43	354443	2.226	ppbv	98
17) tert-Butyl alcohol	4.27	59	17580	0.124	ppbv	97
19) Isopropyl Alcohol	3.94	45	116764	1.100	ppbv #	94
20) Methylene Chloride	4.31	84	5820	0.110	ppbv #	68
22) trans-1,2-Dichloroethene	4.86	96	5940	0.110	ppbv #	80
26) Hexane	5.66	57	6298	0.054	ppbv #	1
29) Chloroform	5.73	83	72015	0.380	ppbv	87
31) cis-1,2-Dichloroethene	5.52	61	11452	0.101	ppbv #	87
34) 2-Butanone	5.24	43	10489	0.058	ppbv #	73
38) Trichloroethene	7.83	130	115362	1.250	ppbv	97
39) 1,2-Dichloropropane	7.17	63	757476	7.933	ppbv #	25
51) 2-Hexanone	10.12	43	32788	0.164	ppbv #	31
52) Tetrachloroethene	11.23	164	146949	1.735	ppbv	95
53) Toluene	9.82	91	43096	0.171	ppbv	100
58) Ethyl Benzene	12.73	91	15064	0.044	ppbv	99
59) m/p-Xylene	13.02	91	13028	0.043	ppbv #	8
60) o-Xylene	13.71	91	28292	0.096	ppbv #	37
62) Isopropylbenzene	14.68	105	15318	0.035	ppbv #	49

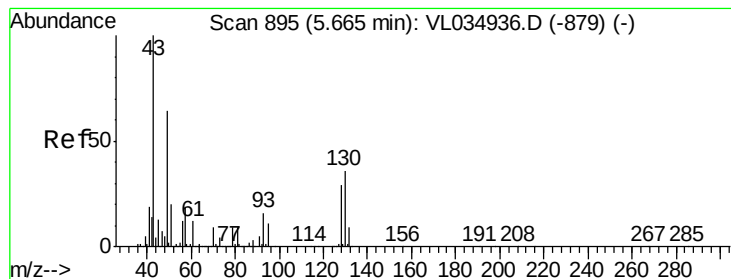
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

ClientSampled :

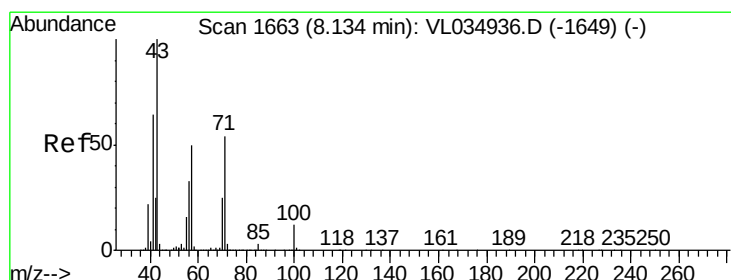
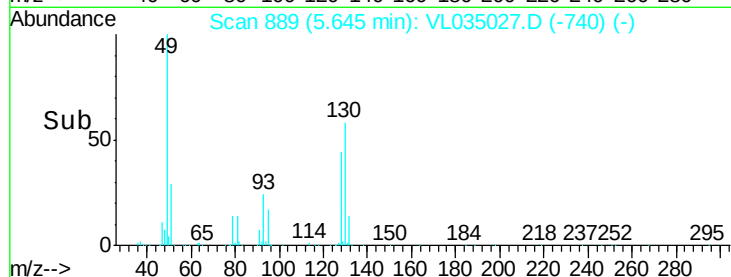
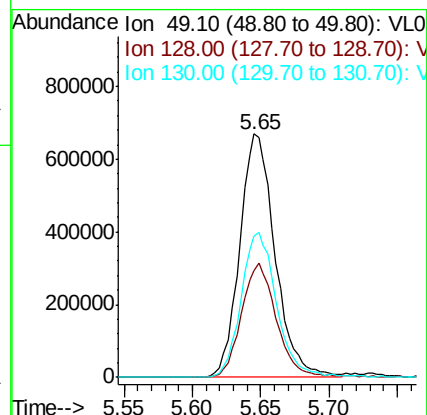
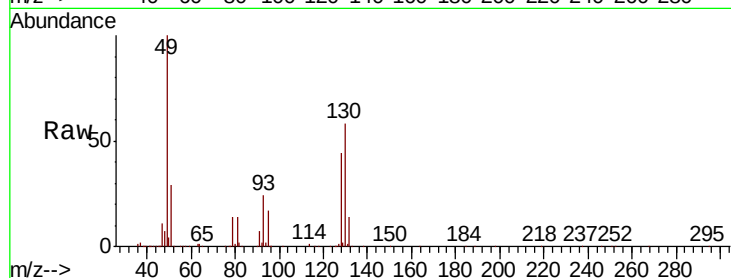
Tot Ion: 49 Resp: 1204263

Ion Ratio Lower Upper

49 100

128 47.0 22.1 66.5

130 60.4 29.1 87.3



#10

Heptane

Concen: 0.094 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL035027.D

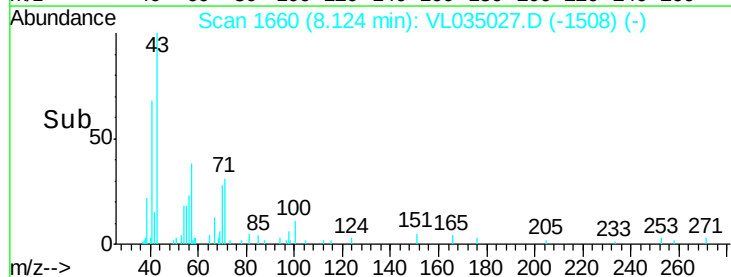
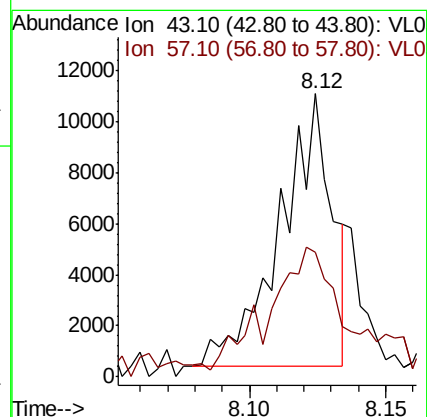
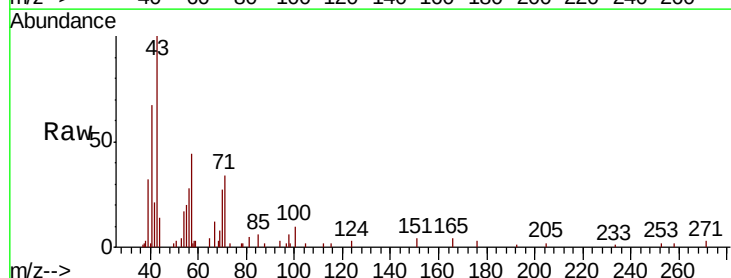
Acq: 14 May 2020 19:39

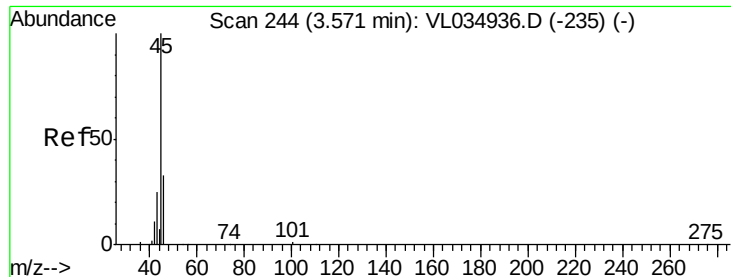
Tgt Ion: 43 Resp: 14040

Ion Ratio Lower Upper

43 100

57 64.2 41.1 61.7#

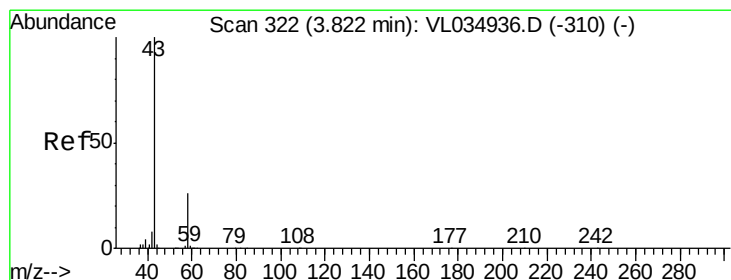
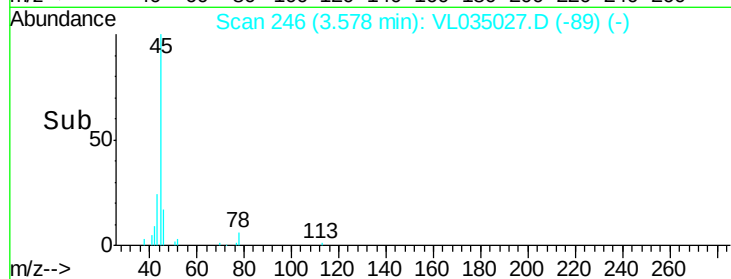
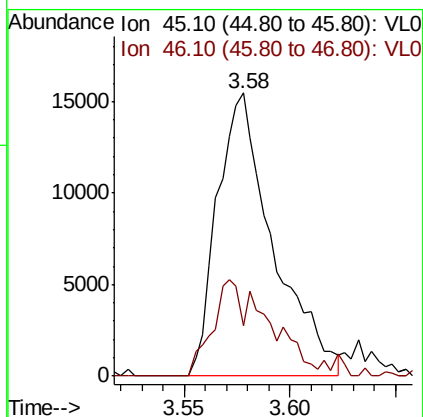
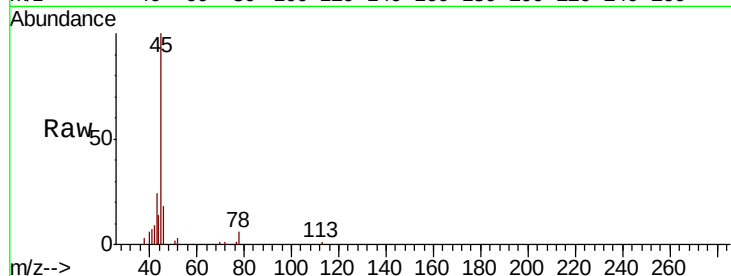




#13
Ethanol
Concen: 1.439 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

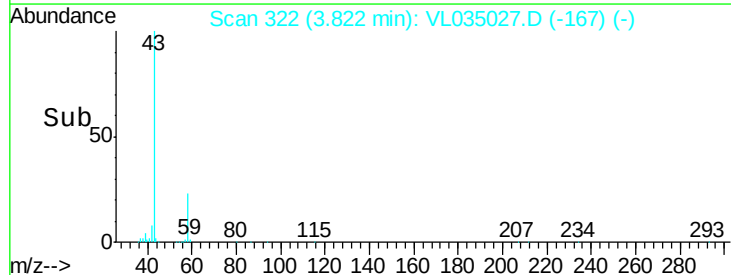
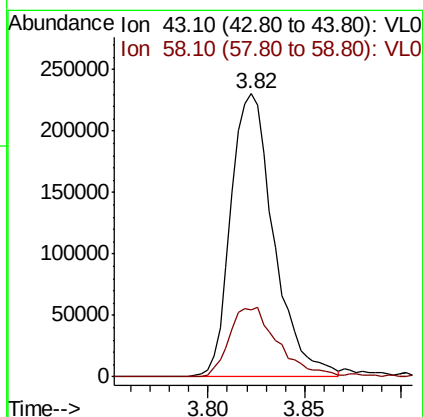
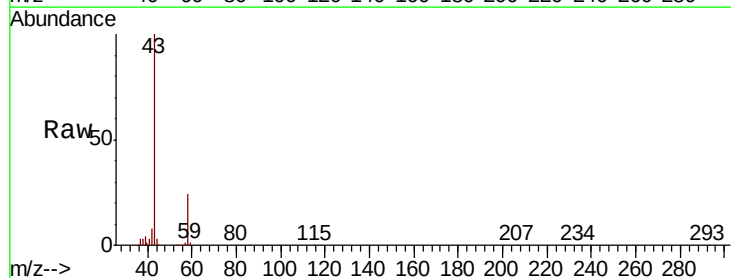
Instrument :
MSVOA_L
ClientSampleId :

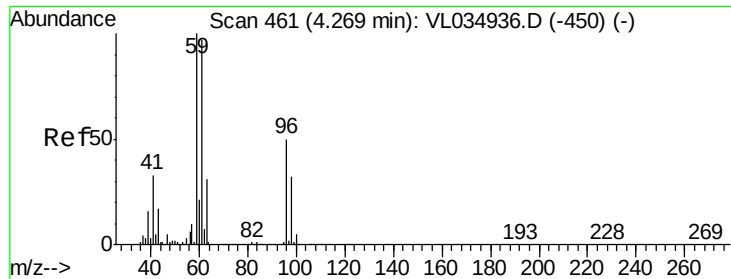
Tot Ion: 45 Resp: 28339
Ion Ratio Lower Upper
45 100
46 36.5 14.3 57.3



#15
Acetone
Concen: 2.226 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.00 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

Tgt Ion: 43 Resp: 354443
Ion Ratio Lower Upper
43 100
58 28.2 21.7 32.5





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 4.27 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

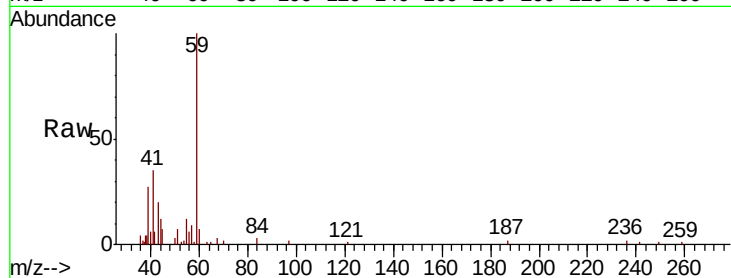
ClientSampleId :

Tot Ion: 59 Resp: 17580

Ion Ratio Lower Upper

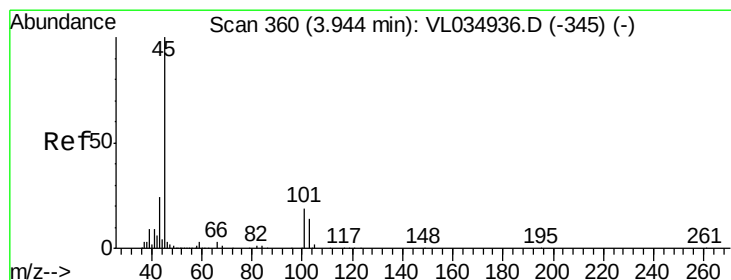
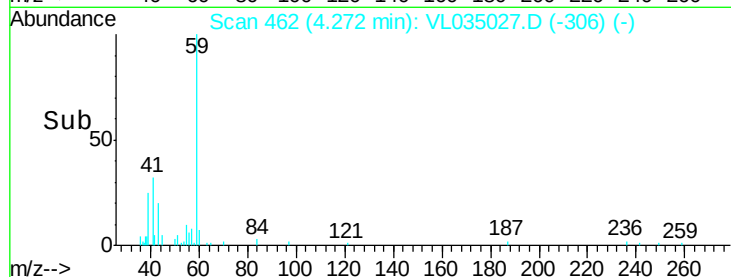
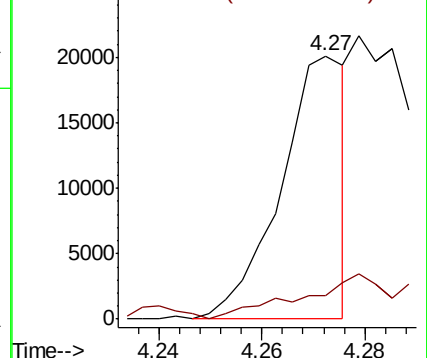
59 100

57 9.7 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 1.100 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035027.D

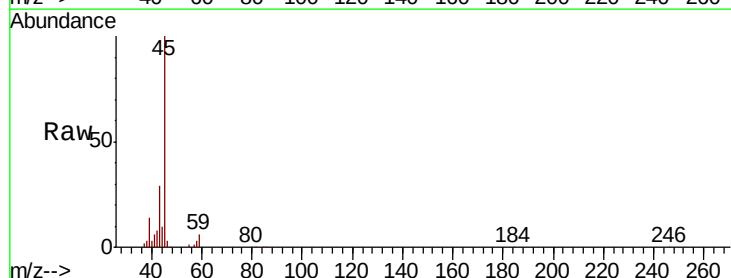
Acq: 14 May 2020 19:39

Tgt Ion: 45 Resp: 116764

Ion Ratio Lower Upper

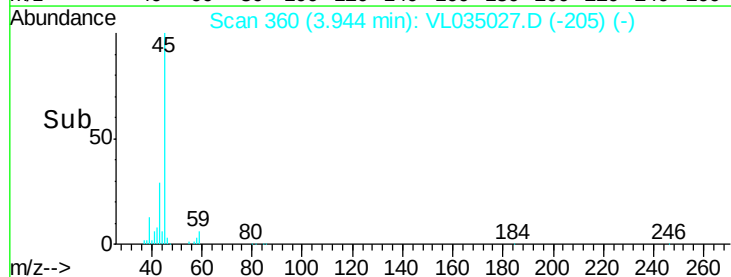
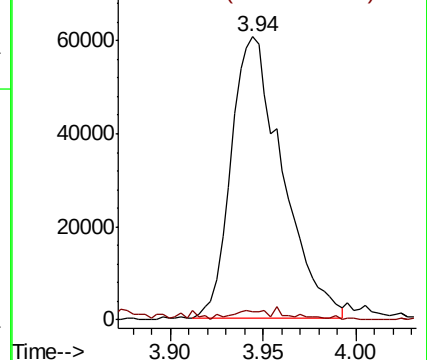
45 100

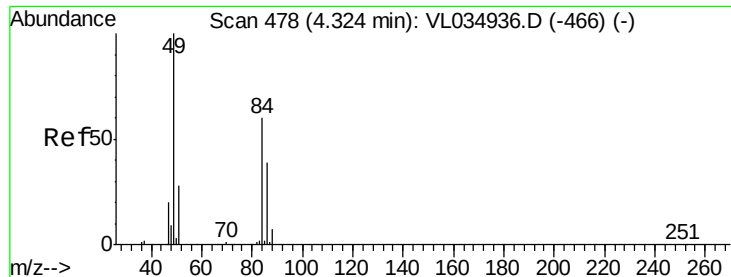
58 4.4 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

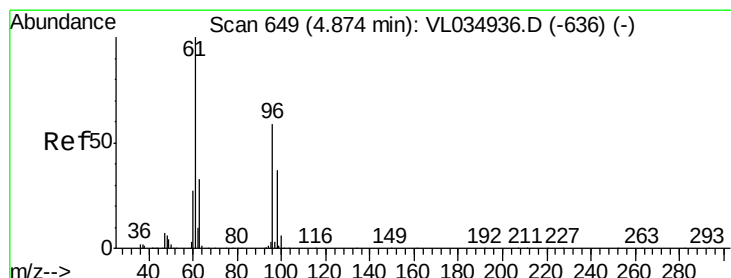
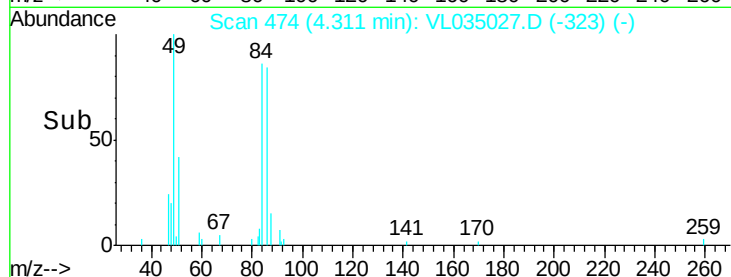
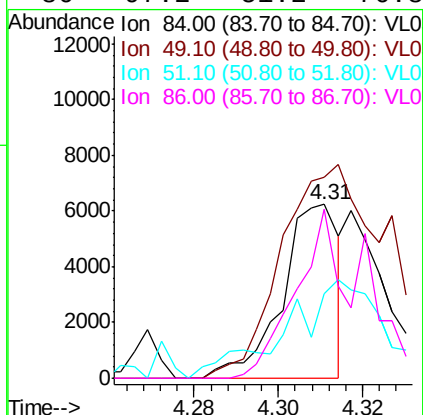
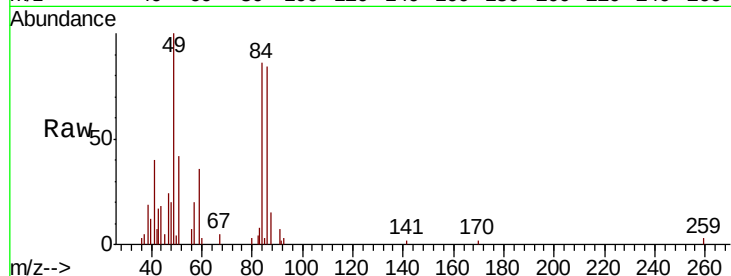




#20
Methylene Chloride
Concen: 0.110 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

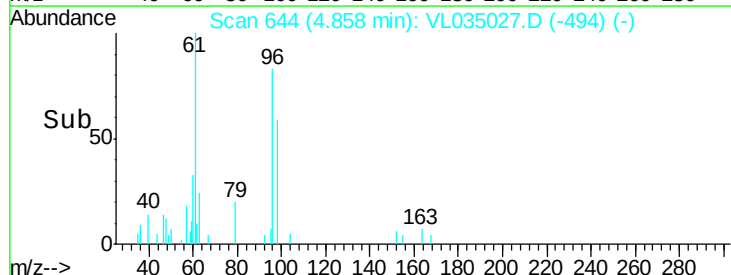
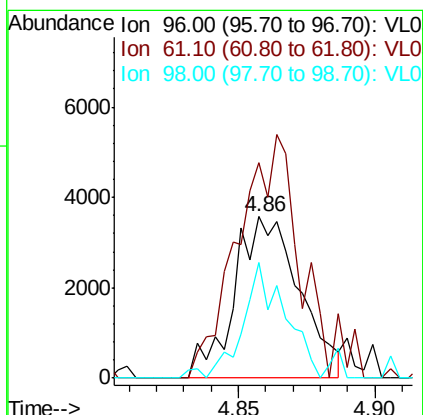
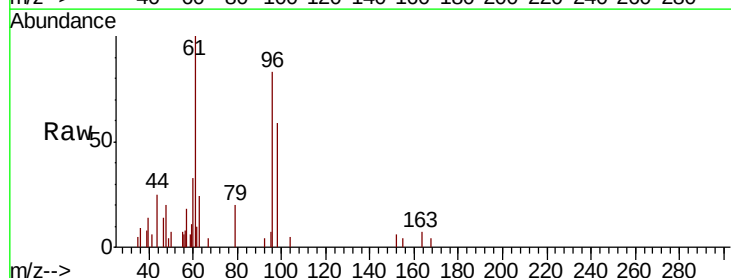
Instrument :
MSVOA_L
ClientSampled :

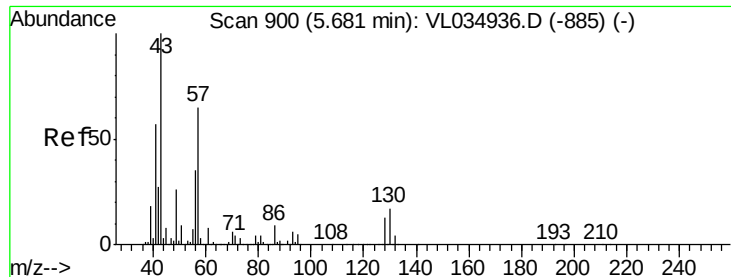
Tot Ion: 84 Resp: 5820
Ion Ratio Lower Upper
84 100
49 115.7 132.5 198.7#
51 48.7 38.4 57.6
86 97.2 51.2 76.8#



#22
trans-1,2-Dichloroethene
Concen: 0.110 ppbv
RT: 4.86 min Scan# 644
Delta R.T. -0.02 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

Tgt Ion: 96 Resp: 5940
Ion Ratio Lower Upper
96 100
61 133.4 135.3 202.9#
98 66.6 50.4 75.6





#26

Hexane

Concen: 0.054 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 6298

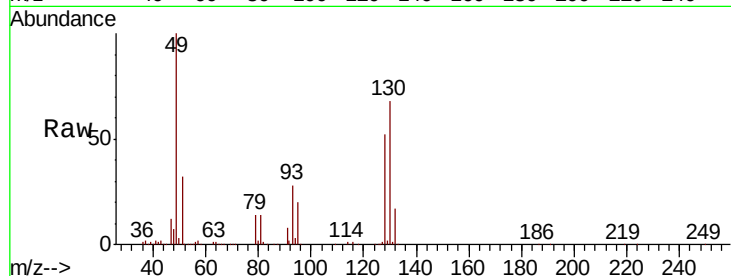
Ion Ratio Lower Upper

57 100

41 0.0 72.7 109.1#

43 0.0 182.1 273.1#

56 0.0 42.2 63.2#



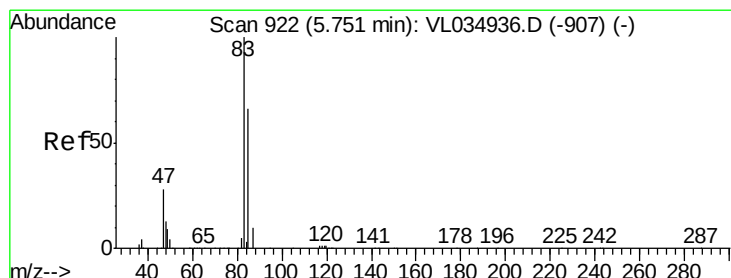
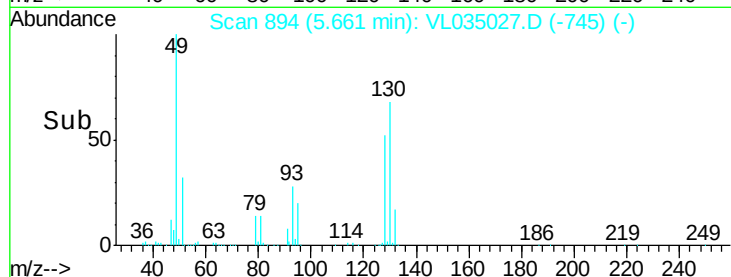
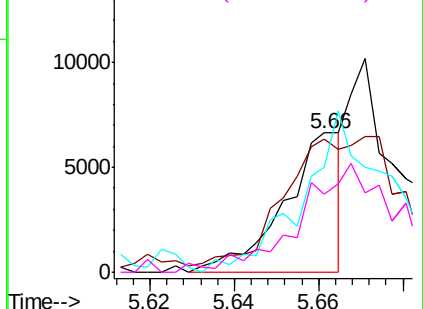
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.380 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL035027.D

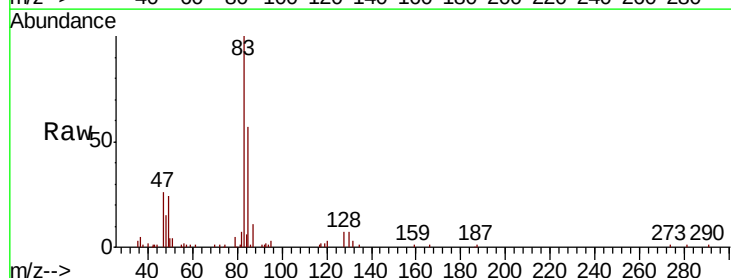
Acq: 14 May 2020 19:39

Tgt Ion: 83 Resp: 72015

Ion Ratio Lower Upper

83 100

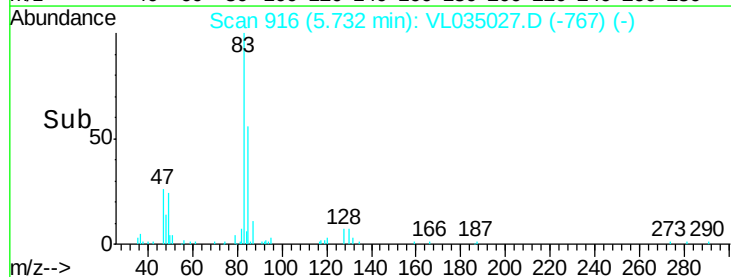
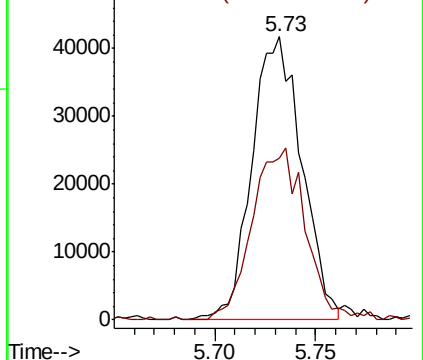
85 56.3 53.0 79.6

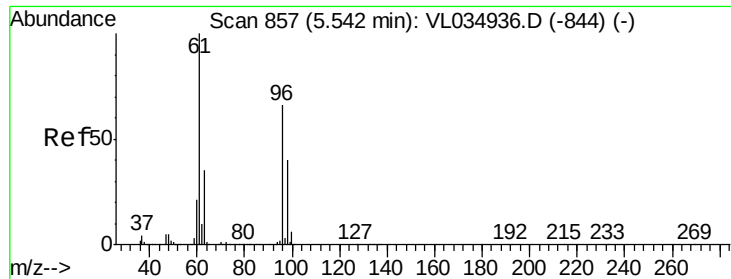


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.101 ppbv

RT: 5.52 min Scan# 850

Delta R.T. -0.02 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

ClientSampleId :

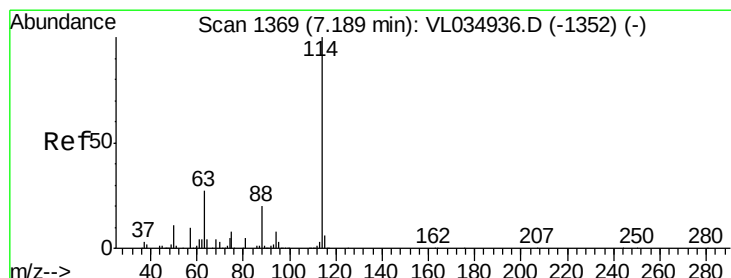
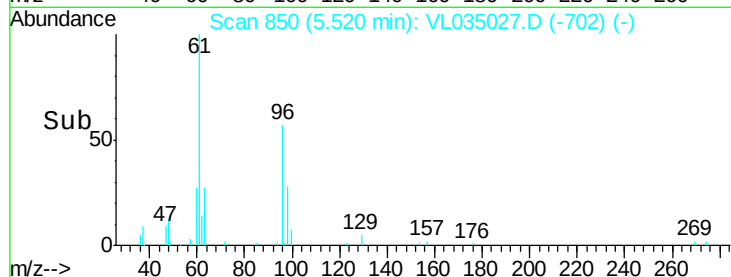
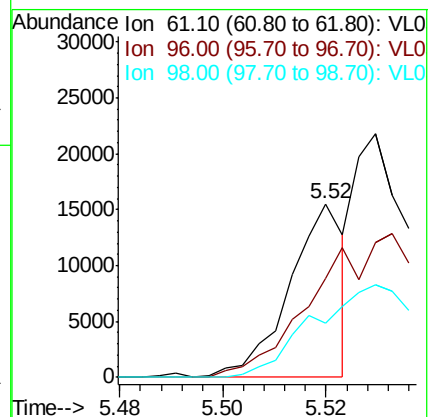
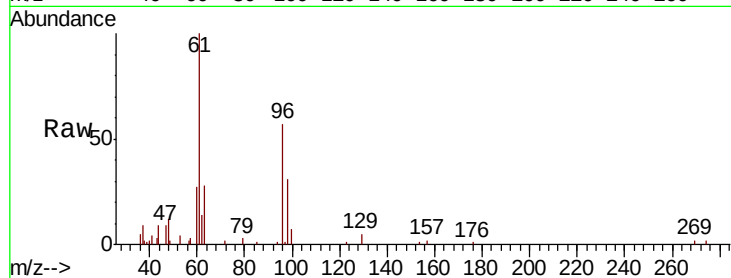
Tot Ion: 61 Resp: 11452

Ion Ratio Lower Upper

61 100

96 57.2 53.0 79.6

98 31.2 32.2 48.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.02 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

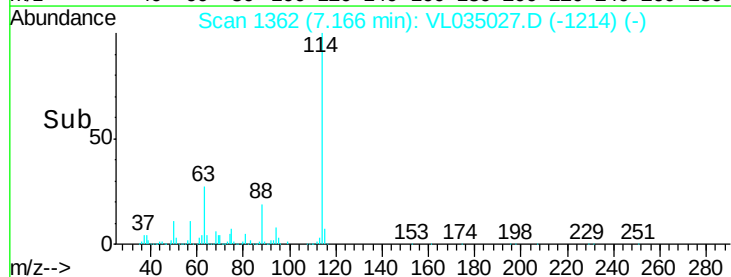
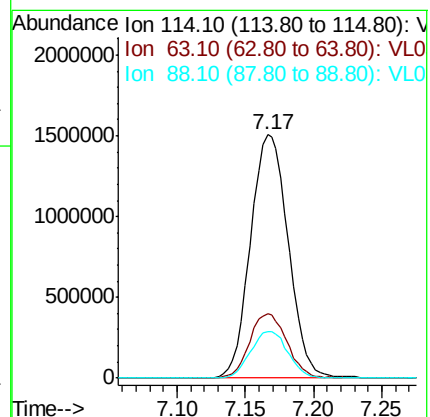
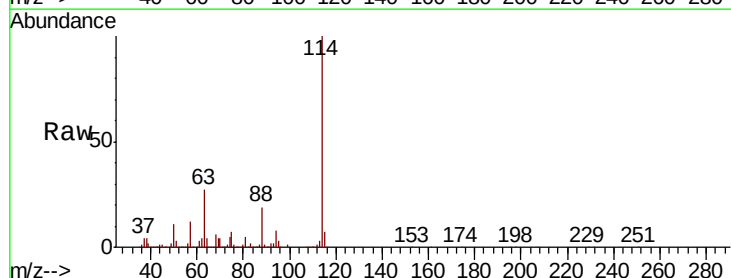
Tgt Ion: 114 Resp: 2889084

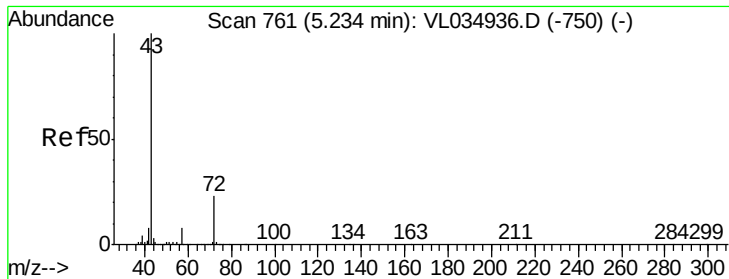
Ion Ratio Lower Upper

114 100

63 26.3 22.2 33.4

88 19.3 15.5 23.3

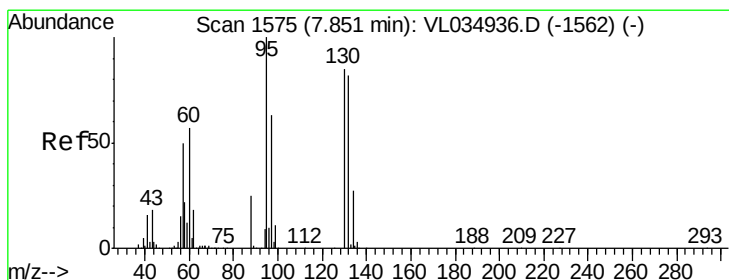
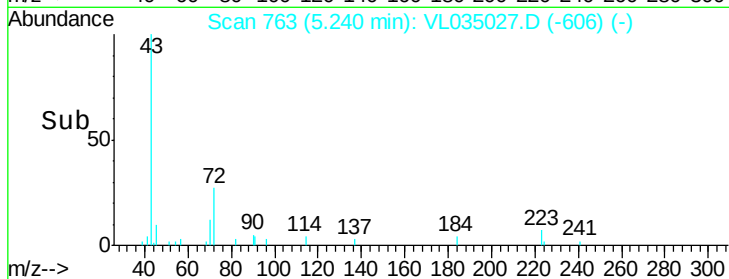
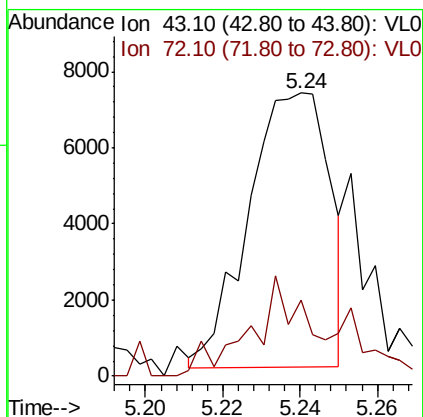
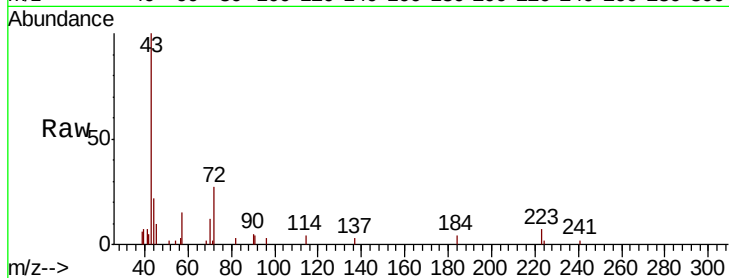




#34
2-Butanone
Concen: 0.058 ppbv
RT: 5.24 min Scan# 763
Delta R.T. 0.01 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

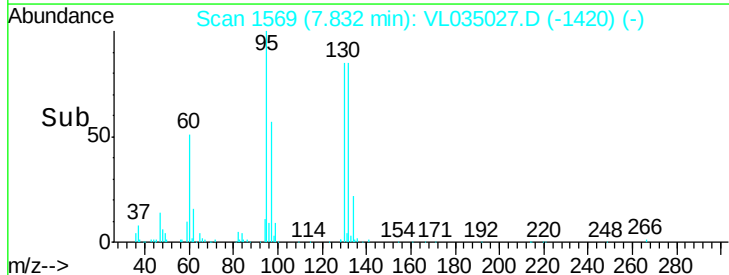
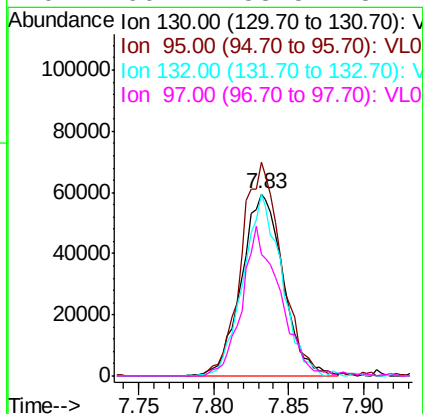
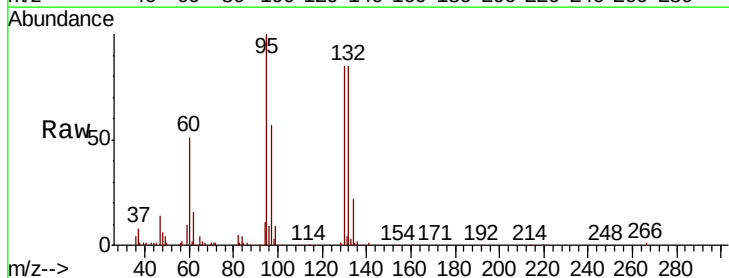
Instrument :
MSVOA_L
ClientSampleId :

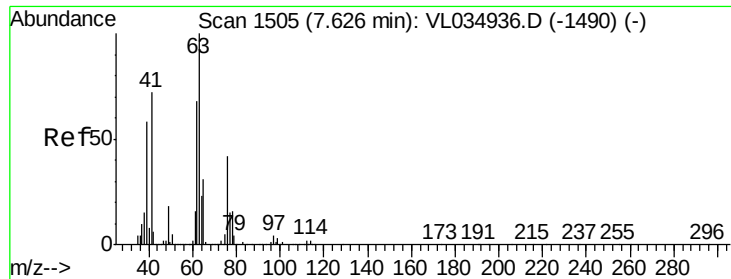
Tot Ion: 43 Resp: 10489
Ion Ratio Lower Upper
43 100
72 35.4 18.0 27.0#



#38
Trichloroethene
Concen: 1.250 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. -0.02 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

Tgt Ion:130 Resp: 115362
Ion Ratio Lower Upper
130 100
95 116.8 93.4 140.0
132 99.1 76.4 114.6
97 66.7 58.5 87.7





#39

1,2-Dichloropropane

Concen: 7.933 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.46 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

ClientSampleId :

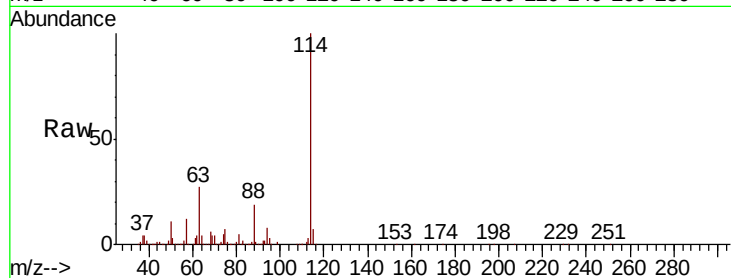
Tot Ion: 63 Resp: 757476

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

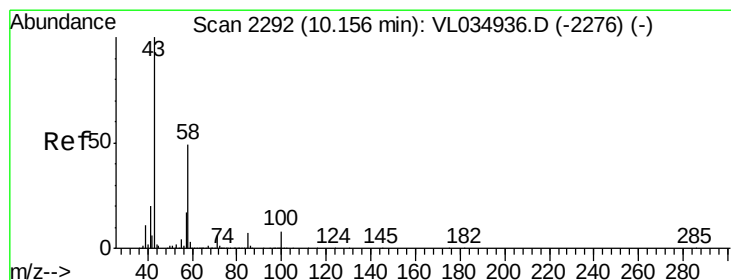
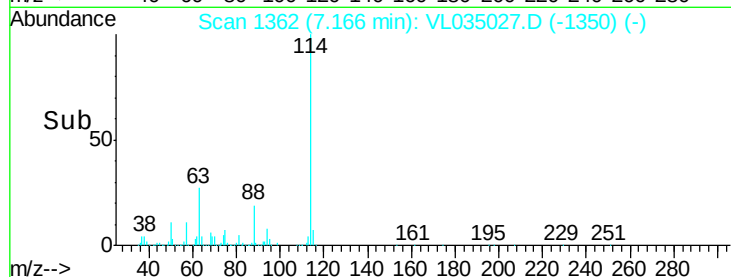
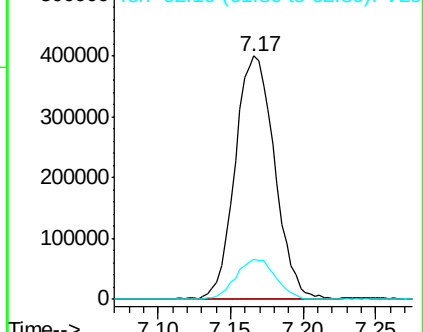
62 16.5 54.2 81.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#51

2-Hexanone

Concen: 0.164 ppbv

RT: 10.12 min Scan# 2281

Delta R.T. -0.04 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

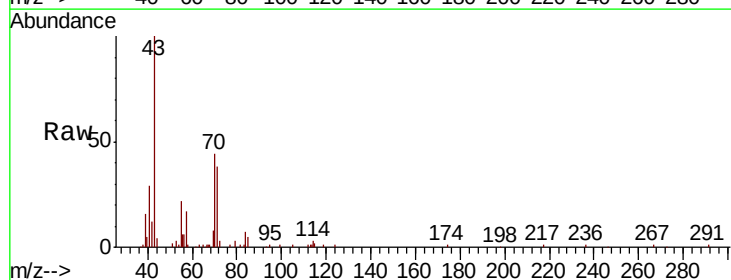
Tgt Ion: 43 Resp: 32788

Ion Ratio Lower Upper

43 100

58 1.2 39.1 58.7#

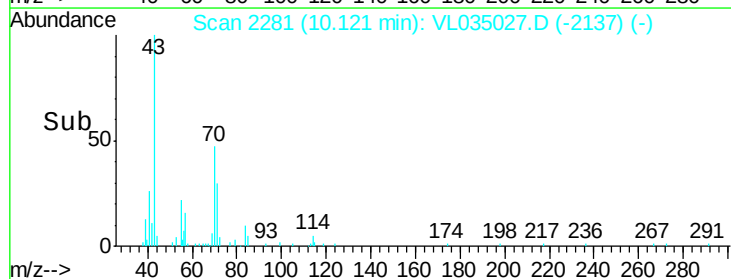
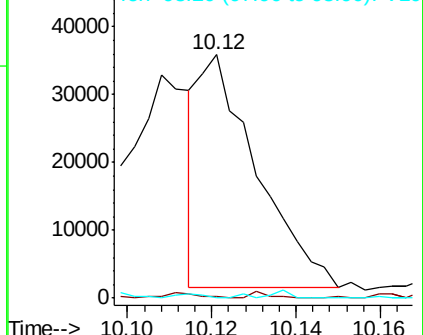
98 2.2 0.3 0.5#

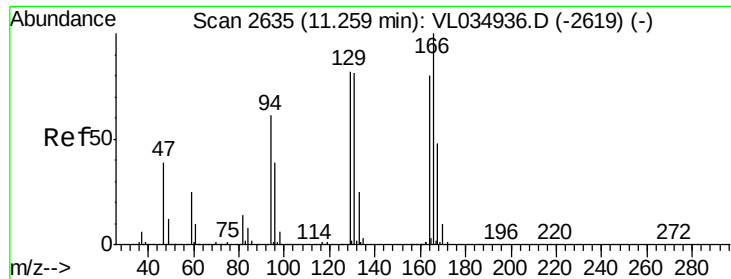


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 1.735 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.03 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 146949

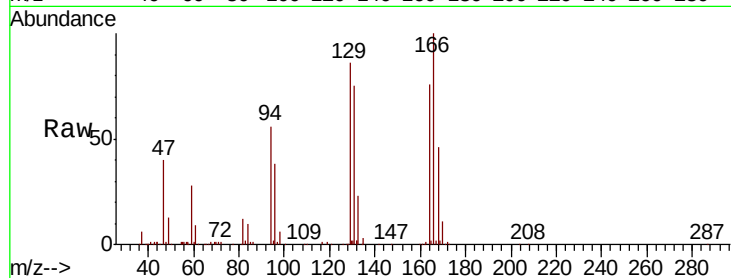
Ion Ratio Lower Upper

164 100

166 132.0 100.7 151.1

129 113.3 83.0 124.4

131 100.9 81.0 121.4

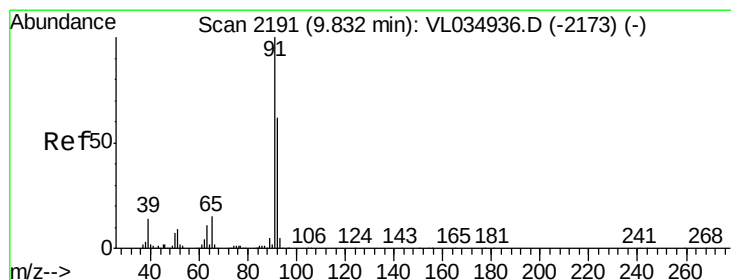
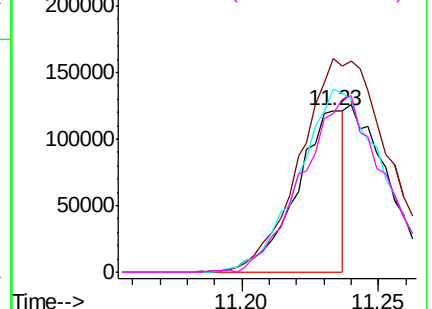
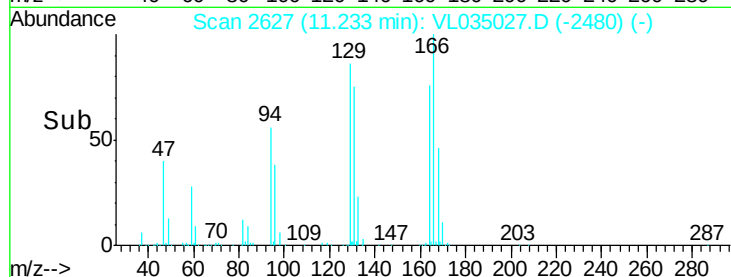


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.171 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL035027.D

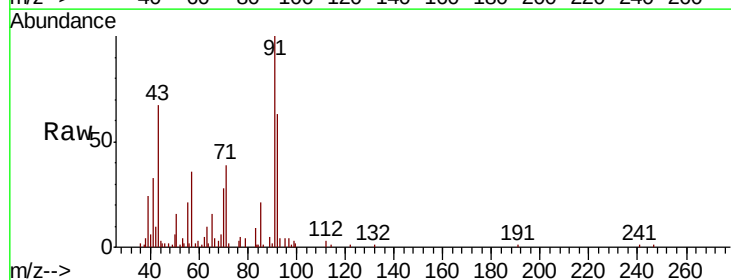
Acq: 14 May 2020 19:39

Tgt Ion: 91 Resp: 43096

Ion Ratio Lower Upper

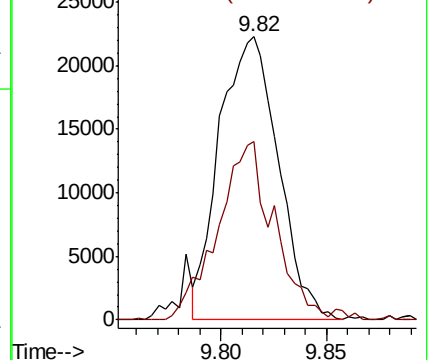
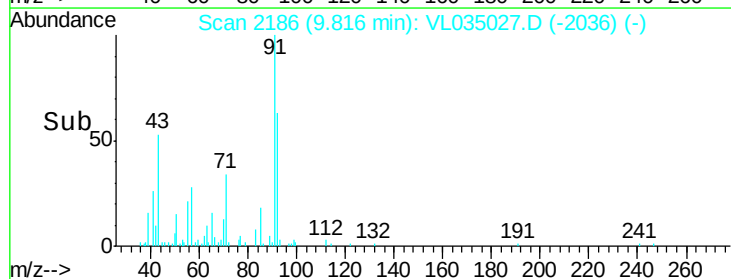
91 100

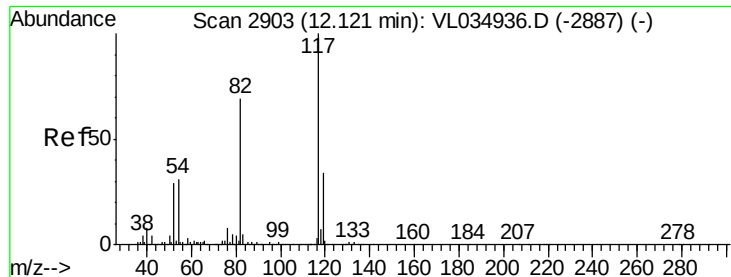
92 61.0 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

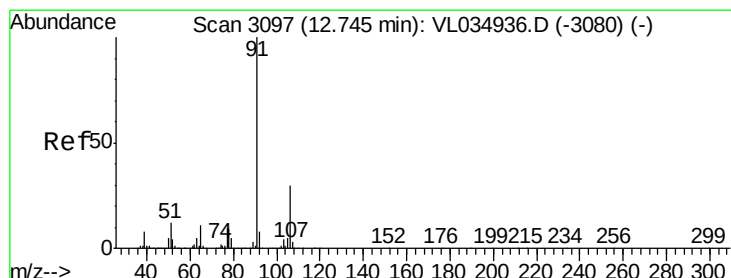
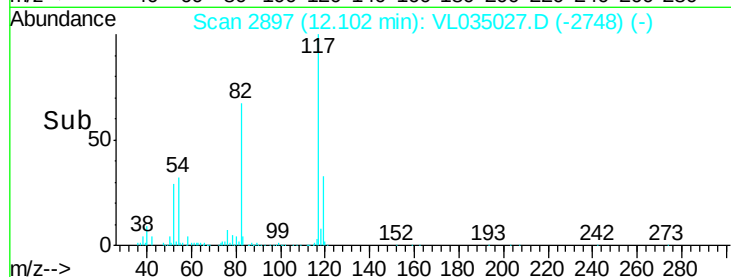
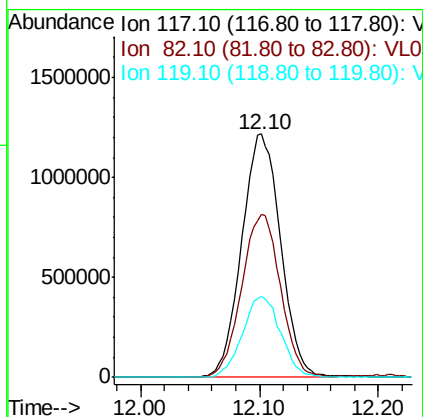
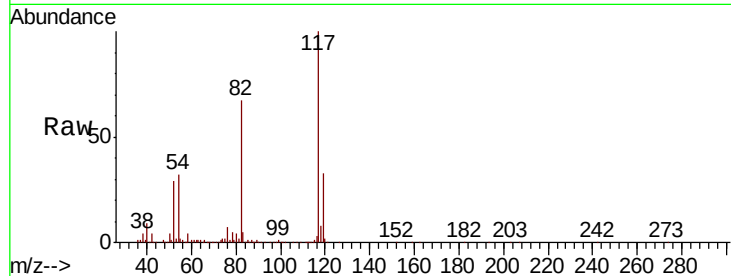




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

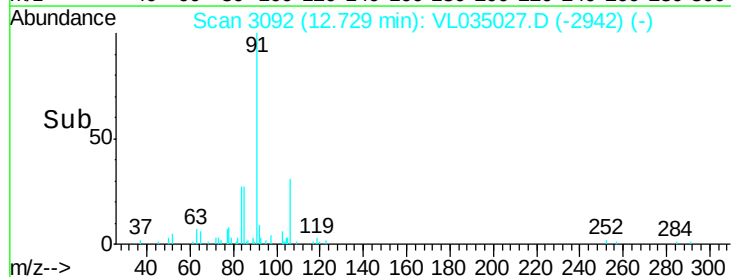
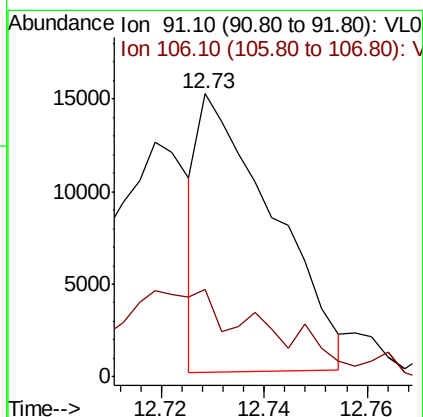
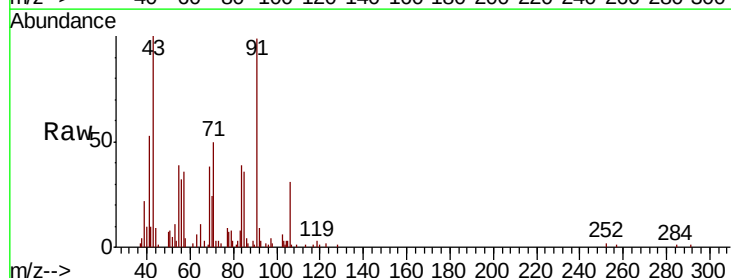
Instrument :
MSVOA_L
ClientSampleId :

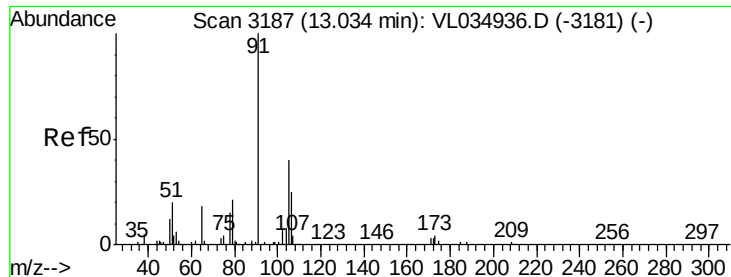
Tot Ion:117 Resp: 2754947
Ion Ratio Lower Upper
117 100
82 66.8 53.1 79.7
119 32.8 26.7 40.1



#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.02 min
Lab File: VL035027.D
Acq: 14 May 2020 19:39

Tgt Ion: 91 Resp: 15064
Ion Ratio Lower Upper
91 100
106 29.6 24.2 36.4





#59

m/p-Xylene

Concen: 0.043 ppbv

RT: 13.02 min Scan# 3184

Delta R.T. -0.01 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

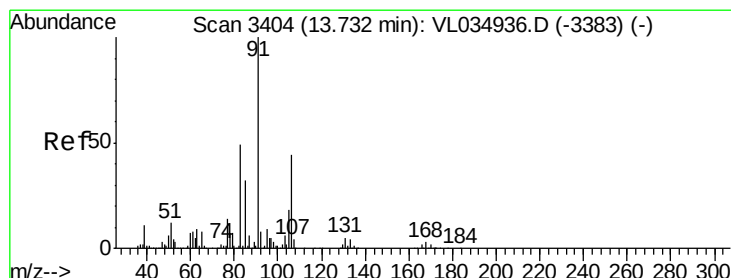
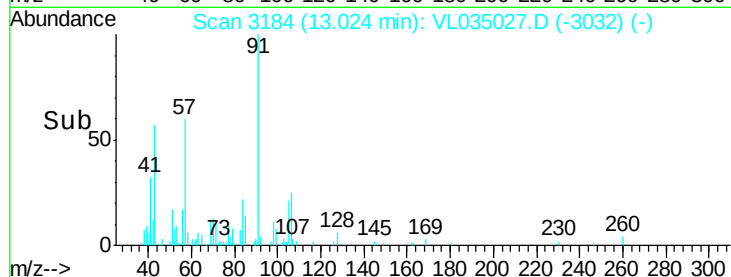
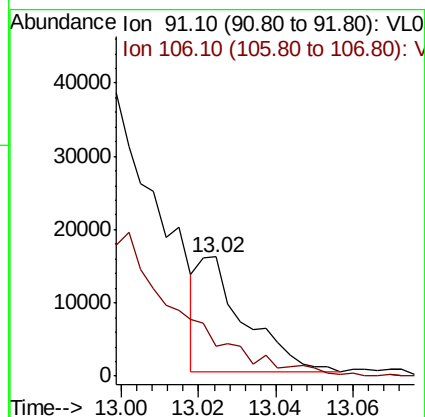
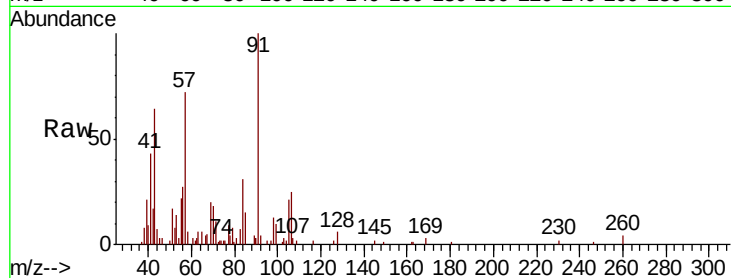
ClientSampled :

Tot Ion: 91 Resp: 13028

Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#



#60

o-Xylene

Concen: 0.096 ppbv

RT: 13.71 min Scan# 3398

Delta R.T. -0.02 min

Lab File: VL035027.D

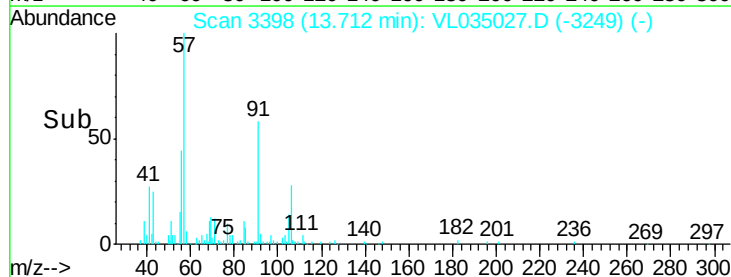
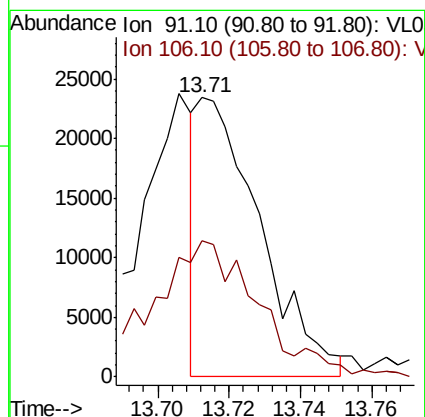
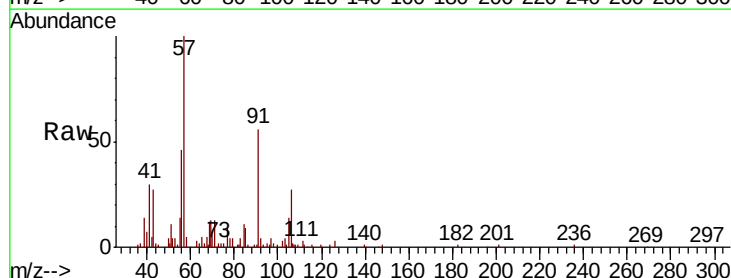
Acq: 14 May 2020 19:39

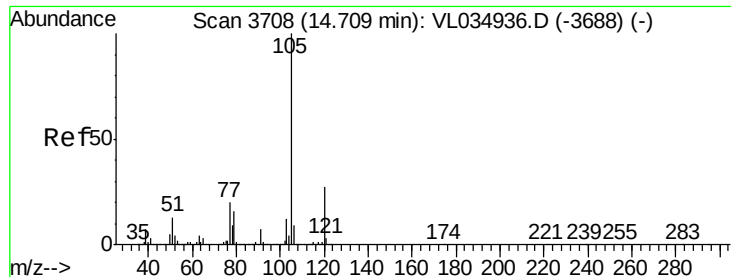
Tgt Ion: 91 Resp: 28292

Ion Ratio Lower Upper

91 100

106 84.6 21.9 65.5#





#62

Isopropylbenzene

Concen: 0.035 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.03 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_L

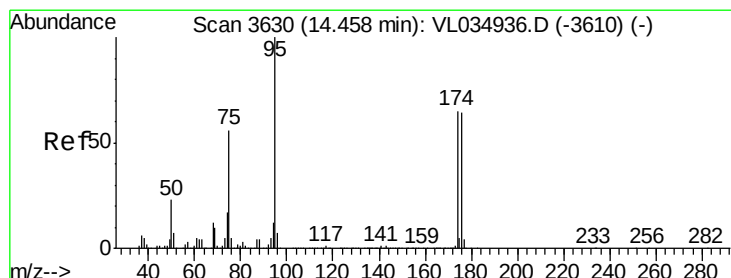
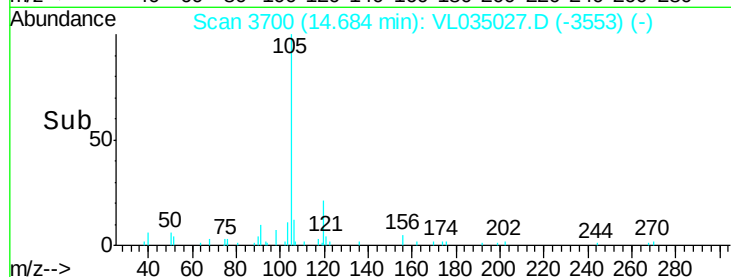
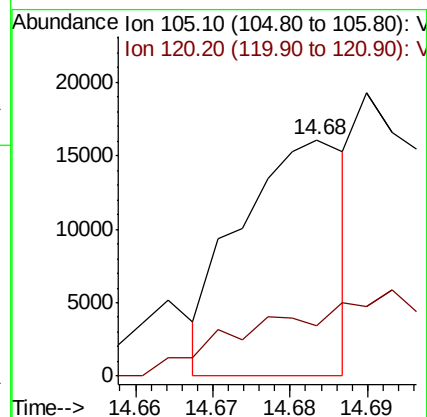
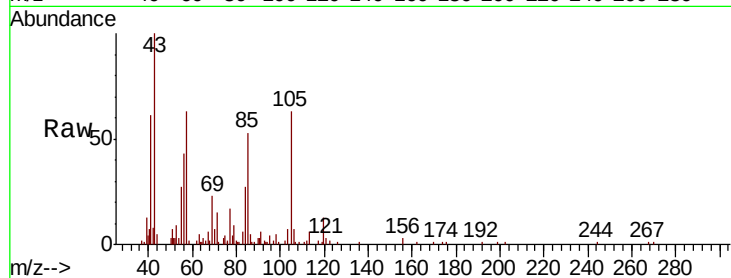
ClientSampleId :

Tot Ion: 105 Resp: 15318

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.532 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.02 min

Lab File: VL035027.D

Acq: 14 May 2020 19:39

Tgt Ion: 95 Resp: 2348554

Ion Ratio Lower Upper

95 100

174 67.1 51.5 77.3

175 5.0 3.8 5.8

